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BREERANDUM FUR : Director of Chatral Intelligence

SUBJECT : Audible Varning Signal for CECART Aircraft

- 1. This memorandum is for information coly.
- 2. This memorandum is in response to a comment made at your 10 February 1986 staff meeting wherein it was augmented that consideration be given to installing audible, in medition to visible, varning devices available in the ONCART cockpit to serve as an additional Aid to the pilot in case of trouble with critical aircraft components or attitudes.
- 3. The OSCART emergency pilot varning system includes two audible varning signals. One is a steady tone stall varning signal which is heard when the sirerest angle of attack reaches +1d degrees. The other is an audible landing year varning signal when (a) the threttles are retarded below minimum eraise setting, (b) the landing goar is not in the down and looked position, and (c) the sireraft altitude is below 10,000 feet + 500 feet. The remainder of the emergency varning system is tied in to an assenciator page) mounted on the lower instrument page! in the cockpit which contains individual varaing lights that indicate malfunctions or failures of equipment and systems. Illusingtion of any individual light also illuminates a red master caution light 2 1/4" x 3/4" directly in front of the pilot on the upper portion of the instrument panel which is very bright and essentially impossible to ignore. Thirty-four individual pieces of equipment or systems are currently monitored on the assunctator panel.
- 4. It is interesting to note that the F-104 sirplane was the first to use an summaristor panel for monitoring

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malfractions or failures of equipment and systems. As part of this meditoring system a test signal was used to alert the pilot whenever as assumetator panel light came on. However, at the specific request of the pilots, this tome signal was removed; the reason being that the tone signal was almost continuous due to the nature of the assumeinter panel mesitering function. As an excupic, feel pressure is meditored and a light came on when the pressure falls to a certain level. However, the level selected to activate the light is well above the minimum allowable and is only to inform the pilot of the status. When the pressure returns to the minimum acceptable, the light goes off. Other items such as oil temperature, hydraulic pressure, etc., are similarly monitored so that the lights are continually going on and off.

very instrumental is defining the present A-12 marning system. Herertheless, another assessment is being made of the ONCART emergency cockpit varning system to assure that the pilots have the maximum assistance possible to identify as early as practicable imposing critical salfunctions or failures.

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	Signatura resorrer tot.	ALMENT D. WHEELOW Deputy Pirector
25X1A	(Signed) AD/OSA	Science and Technology

25X1A ABD/OSA/ :gp (21 Feb 66)

Cy 1,2 - DCI
3 - DD/SET chrono
4,5 - DD/SET Registry
6 - D/OSA
.7,8 - D/TECH/USA

9 - D/TECH/OSA 18 - ASD/OSA chrono OKCART 11 - RB/OSA SECRET

CONTROL STATES

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